

TOD NO: XX645-06
SHA NO: BA938854
MD 150 @ Old Eastern Avenue/Seamaster Road

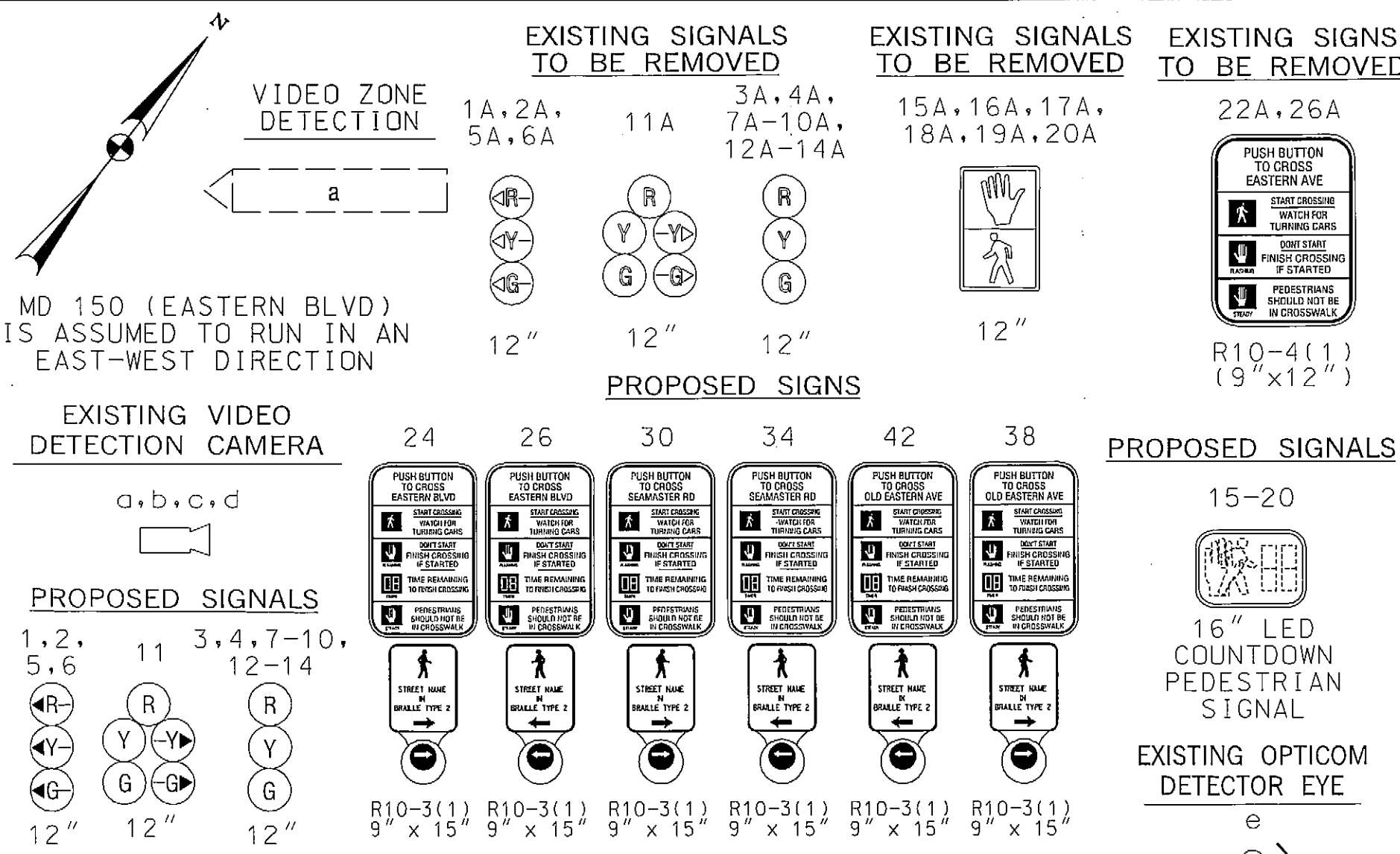
BY: jcheng

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

GEOMETRIC LEGEND
— EXISTING
— PROPOSED

UTILITY LEGEND
— SD — STORM DRAIN
— G — GAS MAIN
— W — WATER MAIN
— S — SEWER MAIN
— E — ELECTRIC CABLES
— A — AERIAL CABLES
— T — TELEPHONE CABLES
— F — FIBER-OPTIC

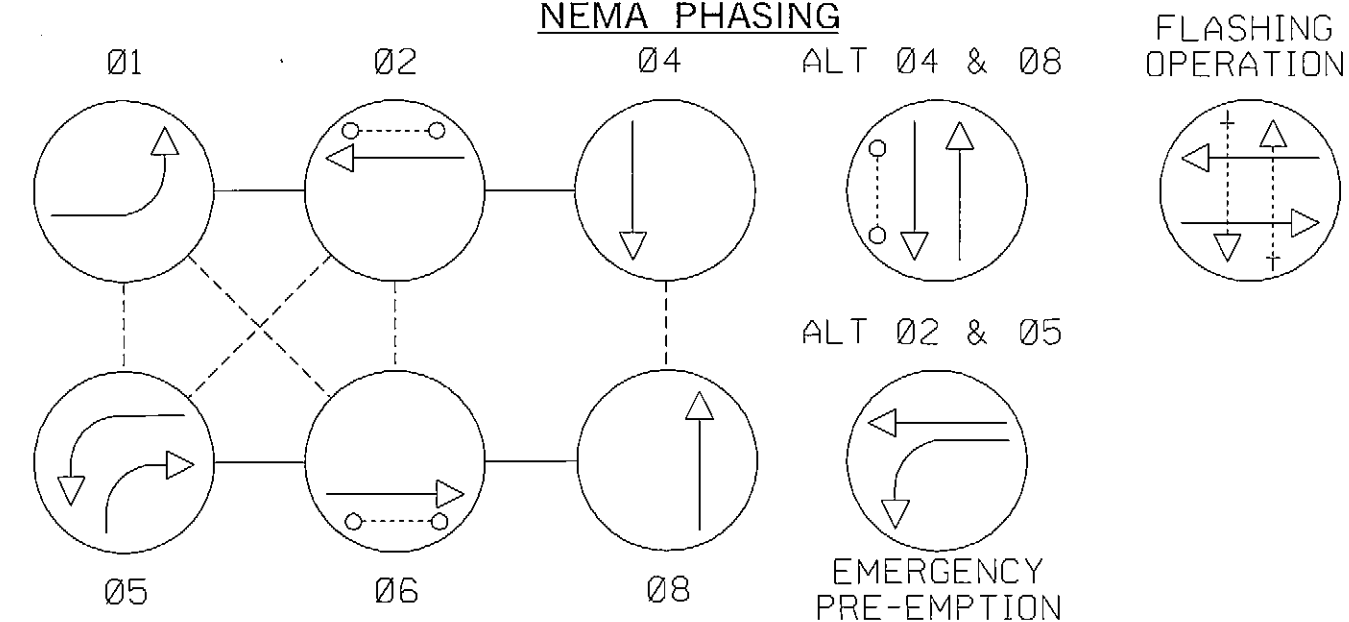
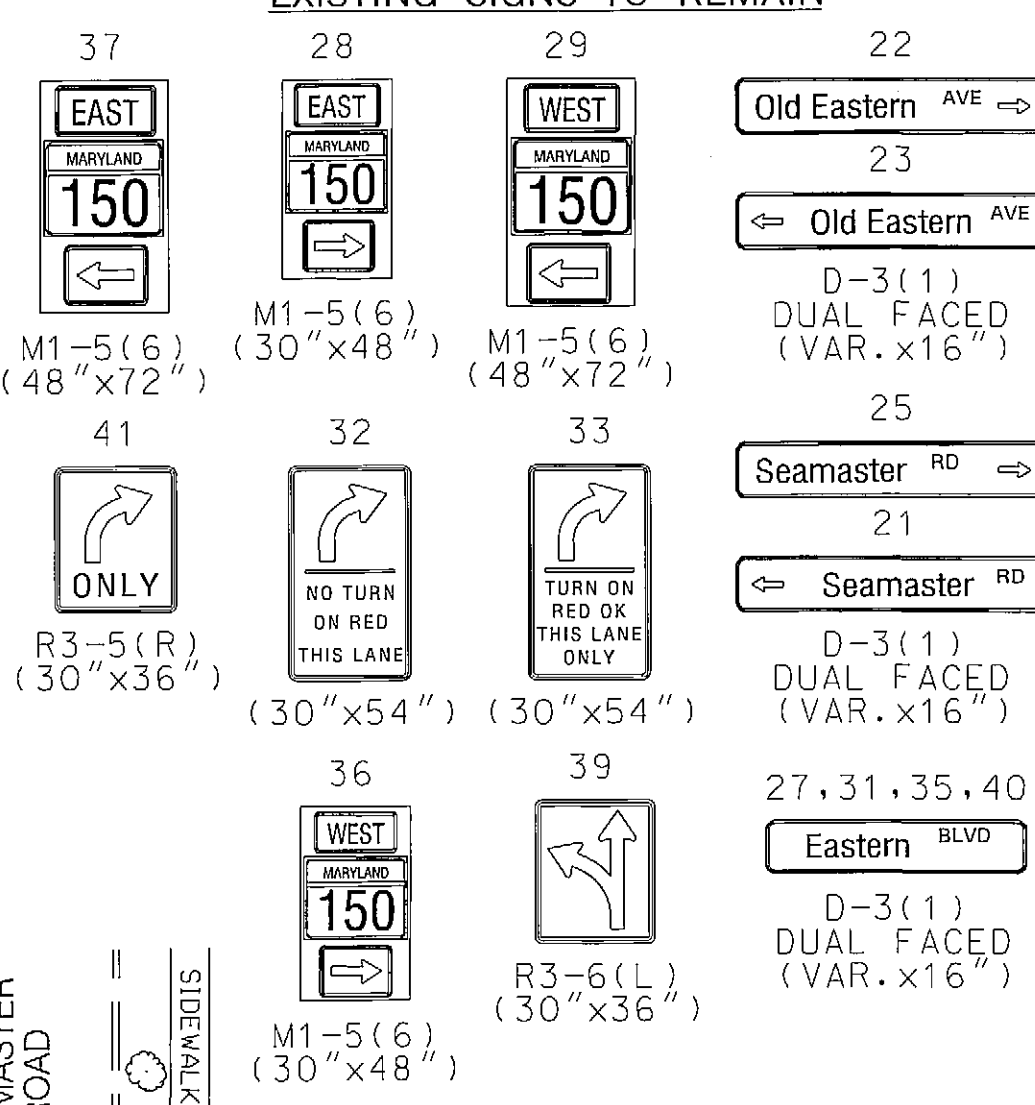
- A. USE EXISTING STEEL POLE. DISCONNECT EXISTING ELECTRICAL CABLES AND REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND R10-4(1) SIGN. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS EASTERN BLVD"). RECONNECT ELECTRICAL CABLES TO PROPOSED EQUIPMENT. CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS.
- B. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STD. NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS EASTERN BLVD"). INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
- C. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STD. NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS OLD EASTERN AVE"). INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
- D. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STD. NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS OLD EASTERN AVE"). INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
- E. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STD. NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SEAMASTER RD"). INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
- F. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STD. NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS SEAMASTER RD"). INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
- G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- I. REMOVE EXISTING PAVEMENT MARKINGS.
- J. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.
- K. USE EXISTING HANDHOLE.
- L. USE EXISTING CONDUIT.
- M. REMOVE EXISTING SIDEWALK RAMP AND/OR SIDEWALK AND INSTALL SIDEWALK RAMP (STD. NO. MD 655.12) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STD. NO. MD 655.40. INSTALL CONCRETE CURB (STD. NO. 620.02) AT THE BACK OF THE SIDEWALK RAMP.
- N. INSTALL COMBINATION CONCRETE CURB AND GUTTER (STD. NO. MD 620.02 TYPE 'A').



GENERAL NOTES:

- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
- REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

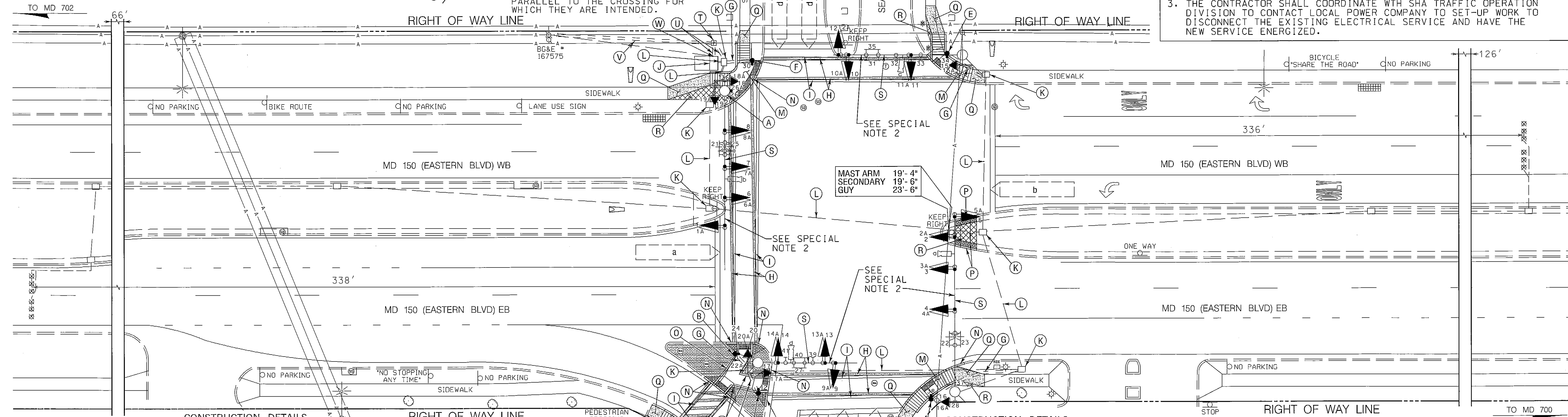
EXISTING SIGNS TO REMAIN



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

SPECIAL NOTES:

- CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- DISCONNECT EXISTING ELECTRICAL CABLE FROM EXISTING SIGNAL HEADS TO BE REMOVED AND RE-CONNECT TO PROPOSED SIGNAL HEADS. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH SHA TRAFFIC OPERATION DIVISION TO CONTACT LOCAL POWER COMPANY TO SET-UP WORK TO DISCONNECT THE EXISTING ELECTRICAL SERVICE AND HAVE THE NEW SERVICE ENERGIZED.



CONSTRUCTION DETAILS

- D. REMOVE EXISTING SIDEWALK RAMP AND SIDEWALK AND INSTALL MEDIAN CUT-THROUGH, STD. TYPE 'A' CURB AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STD. NO. MD 655.40. REMOVE AND RESET EXISTING BRICK PAVERS.
- P. REMOVE EXISTING SIDEWALK RAMP AND INSTALL COMBINATION CONCRETE CURB AND GUTTER (STD. NO. MD 620.02 TYPE 'A'), BACKFILL AND MULCH. REMOVE AND RESET BRICK PAVERS ALONG BACK SIDE OF CURB.
- Q. REMOVE EXISTING SIDEWALK RAMP AND/OR SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.
- R. REMOVE EXISTING SIDEWALK, BACKFILL, SEED & MULCH.
- S. USE EXISTING MAST ARM AND REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL PROPOSED TRAFFIC SIGNAL HEADS AS NOTED.
- T. INSTALL EMBEDDED METEDED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE (SEE SPECIAL NOTE 3).
- U. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- V. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE FOR USE BY BGE FORCES.
- W. USE EXISTING SPARE CONDUIT BEND IN FOUNDATION. REMOVE EXISTING ELECTRICAL SERVICE EQUIPMENT FROM CABINET.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 150 (Eastern Boulevard) at Old Eastern Avenue/Seamaster Road
Baltimore, Maryland

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 6/2003 CONTRACT NO. _____

DESIGNED BY A.M.H. COUNTY Baltimore
DRAWN BY LOGMILE 03015005-29
CHECKED BY J.F.L. TMS NO. K311
F.A.P. NO. TOD NO. _____

TS NO. 4241 D DRAWING TSP-1 OF 3 SHEET NO. 1 OF 3

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